

AMENDMENTS TO THE CLAIMS

1. (Canceled).
2. (Canceled).
3. (Currently Amended) A rewinding machine for producing logs of wound web material comprising:
 - a web advancement path, along which a web material is fed;
 - a core advancement path, along which winding cores are fed, said web material being wound around said cores to form said logs;
 - a winding cradle to wind the web material and form said logs, including ~~at least one~~ a first winding element roller around which said web material is fed and a second winding roller, said first winding roller and said second winding roller forming a nip therebetween; said web advancement path and said core advancement path extending through said nip; said web advancement path, said core advancement path and said first winding roller being arranged such that each core advanced along said core advancement path is caused to pinch the web material against said first winding roller, said logs being wound in contact with said first winding roller and said second winding roller;

- means to sever the web material upon termination of winding each log, including a rotating severing element, cooperating with said first winding element roller;

- at least one first glue dispenser including a mechanical member that touches the web material at end of winding of said each log to apply a first glue to a portion of said web material, in proximity to a severing line, along which the web material is severed upon termination of winding said each log to form a final free edge and an initial free edge, said first glue gluing the final free edge of the log; wherein said mechanical member of said first glue dispenser is integral with said severing element or is part of said severing element, and wherein said mechanical member, said web advancement path and said first winding element roller are constructed and arranged such that the web material is fed between said mechanical member and said first winding element roller when said mechanical member applies said glue to a portion of said web material contacting said first winding element roller.

4. (Previously Presented) Rewinding machine as claimed in claim 3, wherein said severing element is controlled such that when said severing element is in contact with said web material said severing element has a

peripheral speed differing in respect of said first winding element.

5. (Previously Presented) Rewinding machine as claimed in claim 3 or 4, wherein said severing element is integral to an assembly of rods at ends of which glue absorbent pads are integral.

6. (Previously Presented) Rewinding machine as claimed in claim 3, wherein said mechanical member is a rotating element.

7. (Previously Presented) Rewinding machine as claimed in claim 3, wherein said first glue dispenser applies said first glue to a portion of the web material wound around said first winding element.

8. (Previously Presented) Rewinding machine as claimed in claim 3, wherein said mechanical member has at least one pad suitable to pick up said first glue and to touch said web material, to transfer to said pad at least part of the glue picked up.

9. (Previously Presented) Rewinding machine as claimed in claim 3, further comprising a second gluing unit to apply a second glue to tubular winding cores.

10. (Previously Presented) Rewinding machine as claimed in claim 9, further comprising a rolling surface

defining with said first winding element a channel to feed said winding cores; and wherein said winding cores are fed into said channel and made to roll inside the channel before the web material is severed.

11. (Previously Presented) Rewinding machine as claimed in claim 3, wherein said first glue dispenser applies said first glue along longitudinal bands, continuous or broken, on said web material.

12. (Canceled).

13. (Canceled).

14. (Canceled).

15. (Canceled).

16. (Canceled).

17. (Canceled).

18. (Canceled).

19. (Canceled).

20. (Canceled).

21. (Currently Amended) Method for producing logs of wound web material, comprising:

- feeding a web material along a web advancement path;
- sequentially feeding winding cores along a core advancement path;

- winding a quantity of the web material ~~by at least around~~ a first winding ~~element~~ roller to form a first log in a winding area nip formed by said first winding roller and a second winding roller, said web advancement path and said core advancement path each extending through said nip such that each core fed along the core advancement path pinches the web material against the first winding roller;
- upon termination of winding said first log, severing the web material by a mechanical member where the web material is positioned between said mechanical member and said first winding ~~element~~ roller to create a final edge of the first log and an initial edge to form a second log;
- applying a first glue to a portion of the web material destined to remain wound on the first log, in proximity to the final free edge, which is glued to the first log upon termination of winding,

wherein said first glue is applied to the web material by said mechanical member when the web material is present between the mechanical member and the first winding ~~element~~ roller.

22. (Previously Presented) Method as claimed in claim 21, wherein said web material is wound around tubular winding cores.

23. (Previously Presented) Method as claimed in claim 22, further comprising applying a second glue to said tubular winding cores to fasten the initial free edge of the web material.

24. (Previously Presented) Method as claimed in claim 21, wherein said first glue is applied along a longitudinal line.

25. (Previously Presented) Method as claimed in claim 21, wherein said logs are wound with a peripheral winding system.

26. (Previously Presented) Method as claimed in claim 21, wherein said first glue is applied to the web material before severing of the web material.

27. (Previously Presented) Method as claimed in claim 21, wherein said first glue is a liquid or semi-liquid glue.

28. (Previously Presented) Method as claimed in claim 21, wherein said first glue is a strip of double-sided adhesive material.

29. (Canceled).

30. (Canceled).

31. (Canceled).

32. (Canceled).

33. (Canceled).

34. (Canceled).

35. (Canceled).

36. (Canceled).

37. (Previously Presented) Rewinding machine according to claim 3, further including a surface defining a channel along with said first winding element; and wherein said severing element and said mechanical member co-act with said first winding element along said channel.

38. (Previously Presented) Rewinding machine according to claim 37, further comprising a core feeder constructed and arranged to feed winding cores into said channel.

39. (New) The rewinding machine according to claim 3, further including a surface defining with said first winding roller a channel to feed said winding cores, said core advancement path and said web advancement path extending along said channel, said first winding roller and said surface being constructed and arranged such that the cores advance along said channel by rolling on said surface and in contact with said web material fed around said first winding roller and wherein said first glue dispenser applies glue on said web along said channel.

40. (New) The rewinding machine according to claim 3, wherein said first glue dispenser is constructed and arranged to apply glue on said web material downstream of a point of first contact of said core with said web material.

41. (New) The method according to claim 21, further including providing a surface in relation to said first winding roller to form a channel to feed said winding cores, said core advancement path and said web advancement path extending along said channel, said cores advancing along said channel by rolling on said surface and in contact with said web material fed around said first winding roller, and applying glue on said web along said channel by said mechanical member.

42. (New) The method according to claim 21, wherein said first glue is applied on said web material downstream of a point of first contact of said core with said web material.

43. (New) A rewinding machine for producing logs of wound web material comprising:

- a web advancement path, along which the web material is fed;

- a core advancement path, along which winding cores are fed, said web material being wound around said cores to form said logs;
- a winding cradle to wind the web material and form said logs, including at least one winding element around which said web material is fed;
- a surface defining with said first winding element a channel to feed said winding cores, said core advancement path and said web advancement path extending along said channel; said first winding element and said surface being arranged and constructed such that the cores advance along said channel by rolling on said surface and in contact with said web material fed around said first winding element;
- means to sever the web material upon termination of winding each log, including a rotating severing element, cooperating with said first winding element;
- at least one first glue dispenser including a mechanical member that touches the web material at end of winding of said each log to apply a first glue to a portion of said web material, in proximity to a severing line, along which the web material is severed upon termination of winding said each log to form a final free edge and an

initial free edge, said first glue gluing the final free edge of the log;

wherein said mechanical member of said first glue dispenser is integral with said severing element or is part of said severing element, and wherein said mechanical member, said channel and said first winding element are constructed and arranged such that the web material is fed between said mechanical member and said first winding element when said mechanical member applies said glue to a portion of said web material contacting said first winding element and said mechanical member applies glue on said web along said channel.

44. (New) The rewinding machine according to claim 43, wherein said first glue dispenser is constructed and arranged to apply glue on said web material downstream of a point of first contact of said core with said web material.

45. (New) A rewinding machine for producing logs of wound web material comprising:

- a web advancement path, along which the web material is fed;
- a core advancement path along which winding cores are sequentially fed, said web material being wound around said winding cores;

- a winding cradle to wind the web material and form said logs, including at least a first winding roller and a second winding roller, defining a nip therebetween, said core advancement path and said web advancement path extending through said nip and said web material being guided and fed around said first winding roller, said logs being formed by winding said web material around said cores keeping said logs being formed in contact with said first winding roller and said second winding roller;

- means to sever the web material upon termination of winding each log, including a rotating severing element, cooperating with said first winding roller;

- at least one first glue dispenser including a mechanical member that touches the web material at end of winding of said each log to apply a first glue to a portion of said web material, in proximity to a severing line, along which the web material is severed upon termination of winding said each log to form a final free edge and an initial free edge, said first glue gluing the final free edge of the log;

wherein said mechanical member of said first glue dispenser is integral with said severing element or is part of said severing element, and wherein said mechanical member, said

path and said first winding roller are constructed and arranged such that the web material is fed between said mechanical member and said first winding roller when said mechanical member applies said glue to a portion of said web material contacting said first winding roller.

46. (New) The rewinding machine according to claim 45, wherein said first glue dispenser is constructed and arranged to apply glue on said web material downstream of a point of first contact of said core with said web material.

47. (New) The rewinding machine according to claim 45, further including a surface defining with said first winding roller a channel to feed said winding cores, said core advancement path and said web advancement path extending along said channel, said first winding roller and said surface being constructed and arranged such that the cores advance along said channel by rolling on said surface and in contact with said web material fed around said first winding roller and wherein said first glue dispenser applies glue on said web along said channel.